

DERWENT- 1999-317034

ACC-NO:

DERWENT- 199927

WEEK:

COPYRIGHT 2005 DERWENT INFORMATION LTD

**TITLE:** Backlight illumination controller for LCD device - detects maximum brightness level of input video signal in proportion to which illumination of backlight is controlled

---

**Title - TIX (1):**

Backlight illumination controller for LCD device - detects maximum brightness level of input video signal in proportion to which illumination of backlight is controlled

# PATENT ABSTRACTS OF JAPAN

(11) Publication number : 11-109317

(43) Date of publication of application : 23.04.1999

(51) Int.Cl. G02F 1/133  
G02F 1/1335

(21) Application number : 09-266692 (71) Applicant : SONY CORP

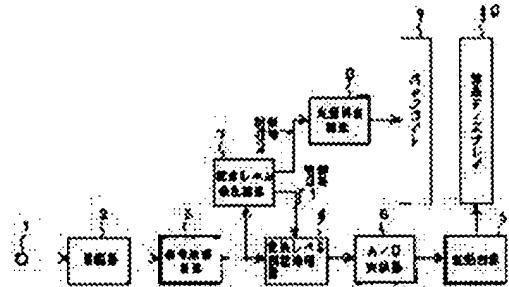
(22) Date of filing : 30.09.1997 (72) Inventor : WATANABE KENJI

## (54) LIQUID CRYSTAL DISPLAY DEVICE

### (57) Abstract:

**PROBLEM TO BE SOLVED:** To easily maximize contrast and to reduce heat generation and power consumption by controlling light quantity in proportion to the maximum luminance level of an input video signal.

**SOLUTION:** A luminance level detecting circuit 7, upon detecting the maximum level of luminance is for example 100 IRE from a Y signal in a signal processing circuit 3, transmits to a conversion level adjusting amplifier 4 a control signal 1 that sets the gain at one, and also transmits to a light quantity control circuit 8 a control signal 2 that sets the light quantity of the back light 9 at 100%. Then, in the case where a signal is inputted corresponding to the maximum level luminance 30% (30 IRE) from an inputting part 1, this signal is amplified by an amplifier 2 and processed by the signal processing circuit 3, while the luminance level detecting circuit 7, upon detecting the maximum level of the luminance is 30 IRE from the processed Y signal, transmits to the conversion level adjusting amplifier 4 the control signal 1 that increases the gain  $100/30=3.3$  times, and also transmits to the light quantity control circuit 8 the control signal 2 that sets the light quantity of the back light 9 at 30%.



## LEGAL STATUS

[Date of request for examination]

23.07.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office